Figure 1

Figure 2A

01-062-TAP

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Fig. 2B
01-062-TAP

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Fig. 2C
01-062-TAP

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Fig. 2D
01-062-TAP

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221

Select addition of extension module from operator control panel
301

Move robots from pass-through area and establish keep-out zones
302

Set desired service door on existing library to "open eminent" state
303

Unlock and open service door
304

Remove front cover assembly from library system
305

Add extension module chassis to the end of the existing library system
306

Fit new robot guide rail segments onto ends of rail segments of existing library system
307

Replace front covers assembly onto new extension module
308

Install robots as required and close all service doors
309

Software initiates calibration and audit routines to bring the new library on line
310

Figure 3

Ostwald et al.
2001-062-TAP
Method of Non-Disruptive Capacity Scaling for a Data Storage Library
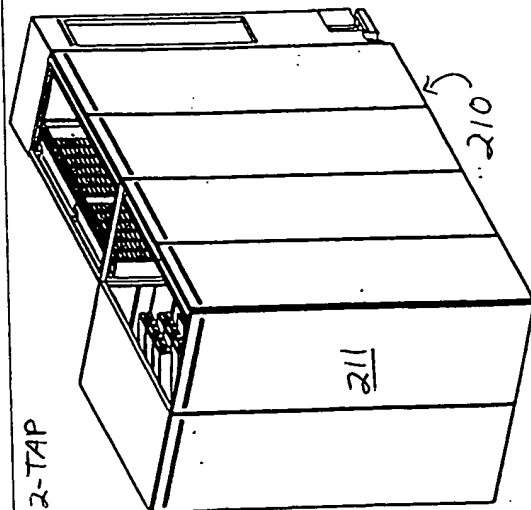Page 3 of 5

Figure 4A

Fig. 4A
01-062-TAP

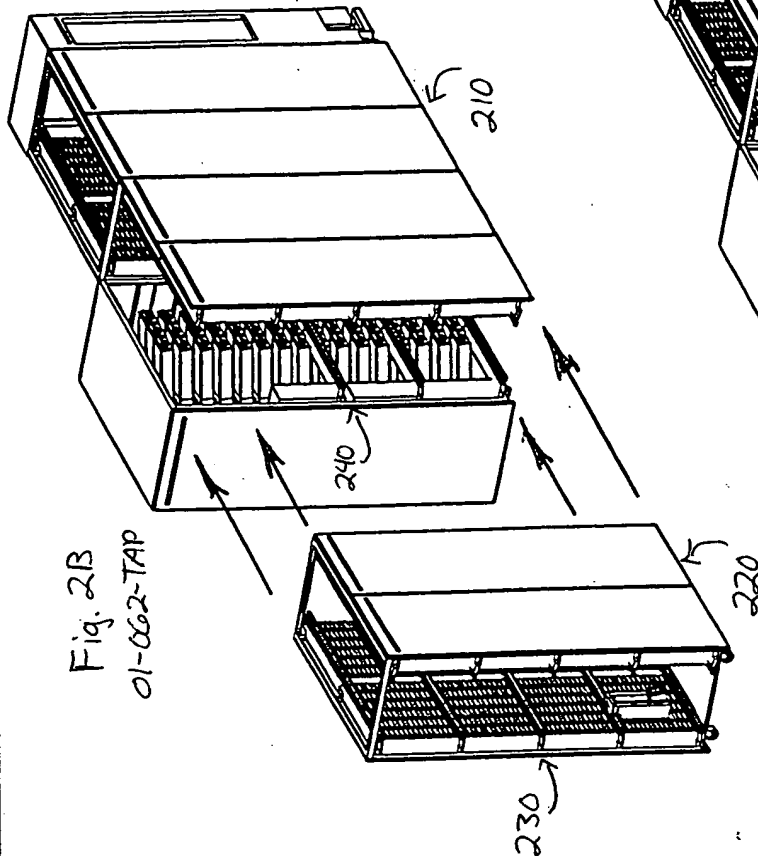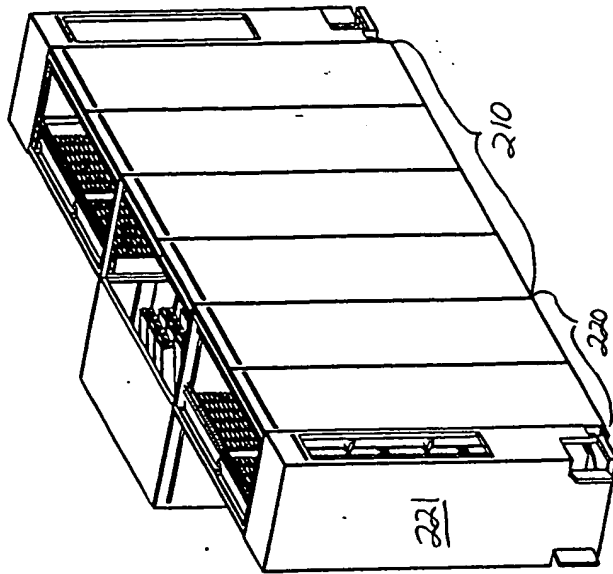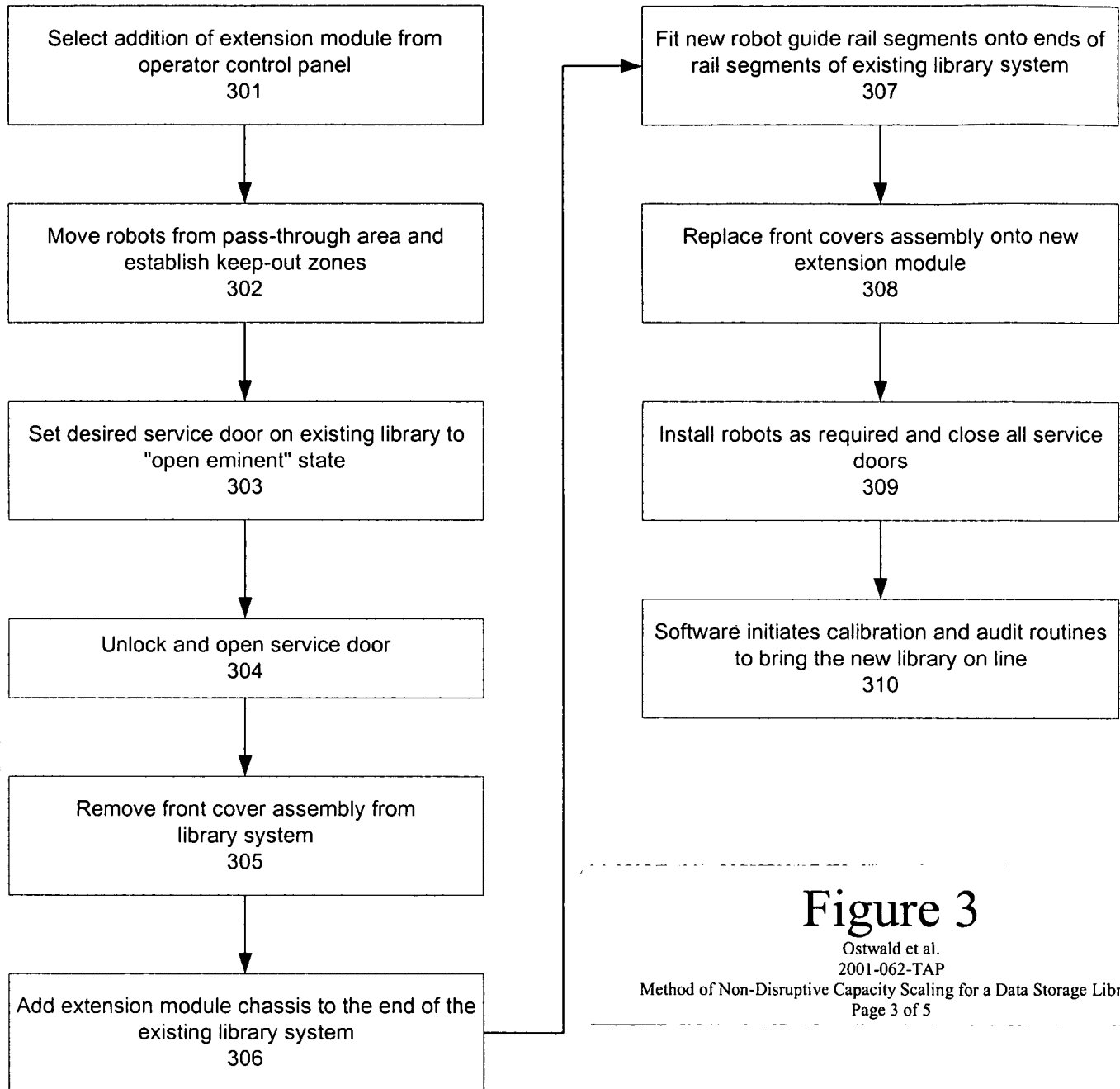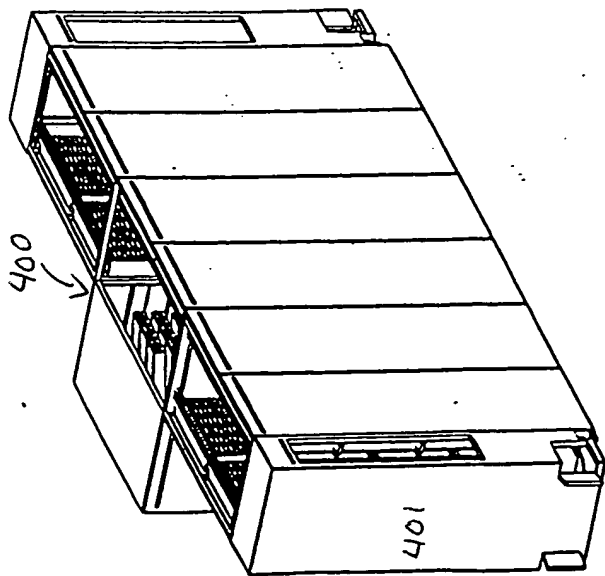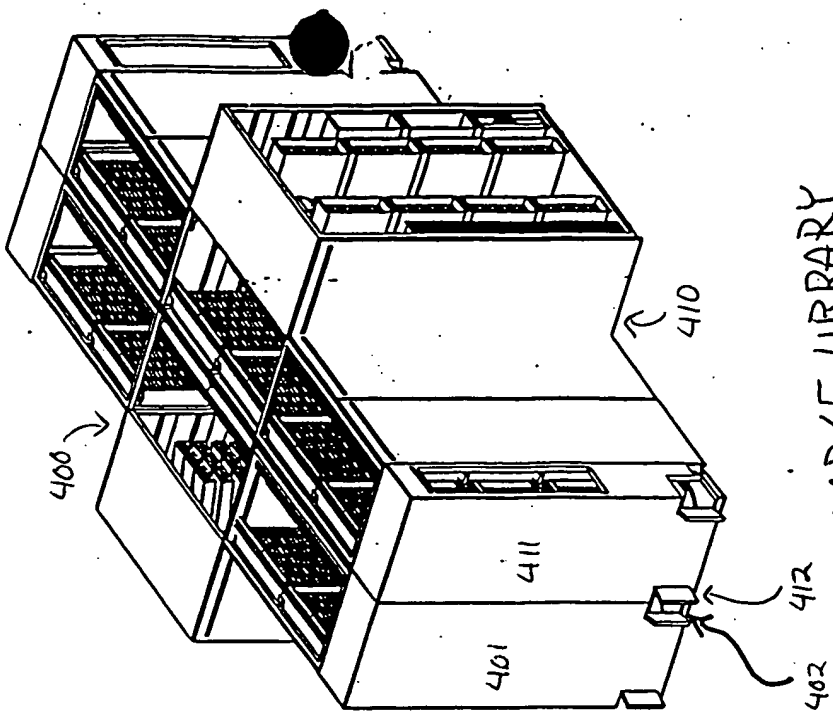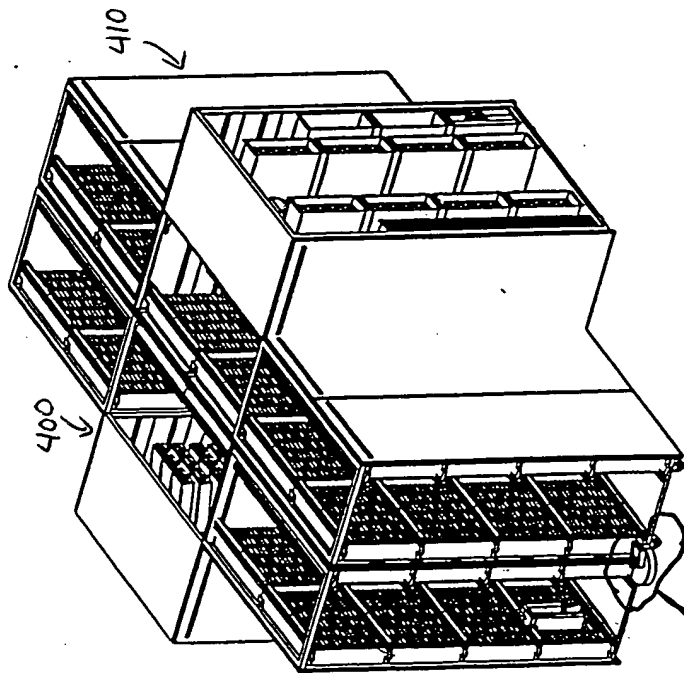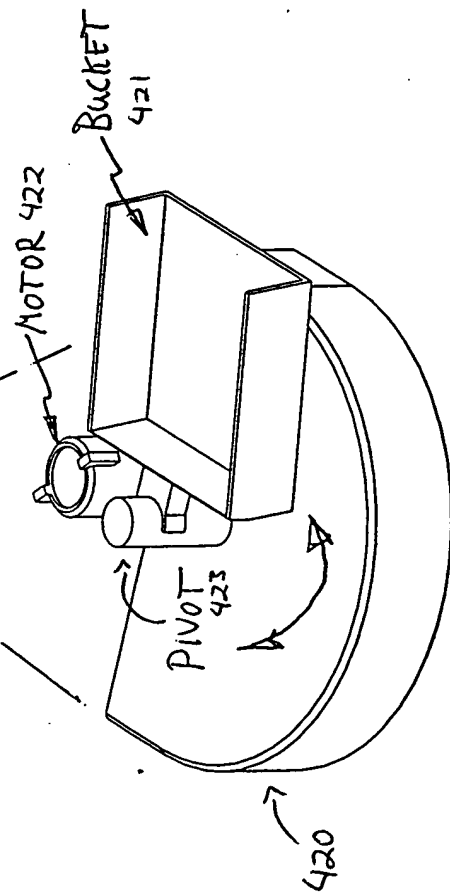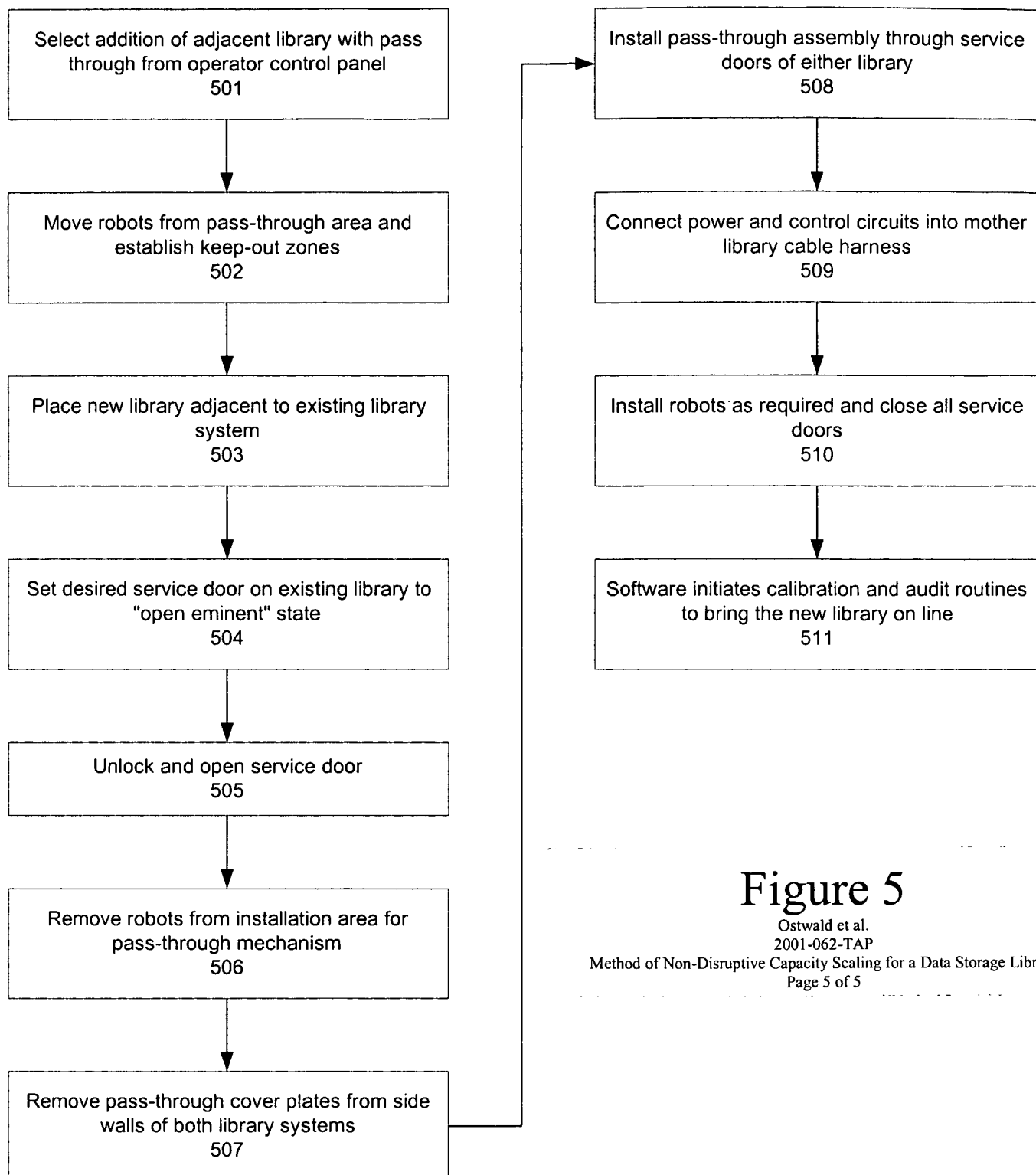SMALL LIBRARY

Fig. 4C
01-062-TAP

LARGE LIBRARY

PASS THROUGH

Bucket 421
MOTOR 422
PIVOT 423

Select addition of adjacent library with pass through from operator control panel
501

Move robots from pass-through area and establish keep-out zones
502

Place new library adjacent to existing library system
503

Set desired service door on existing library to "open eminent" state
504

Unlock and open service door
505

Remove robots from installation area for pass-through mechanism
506

Remove pass-through cover plates from side walls of both library systems
507

Install pass-through assembly through service doors of either library
508

Connect power and control circuits into mother library cable harness
509

Install robots as required and close all service doors
510

Software initiates calibration and audit routines to bring the new library on line
511

Figure 5